

Cloning

Embryo Cloning

Potential benefits:

- *understand and prevent miscarriages*
- *more effective contraceptives*
- *prevent growth of cancer*
- *test for inherited diseases*
- *increases success rate for IVF*
- *potential sibling donors frozen*
- *twins rather than two pregnancies*

Moral issues

- issues raised by PGD
 - ❖ eugenics
 - ❖ value of embryo
 - ❖ discrimination
- 'mass production' of:
 - ❖ soldiers
 - ❖ workers
 - ❖ ruling class

Therapeutic Cloning

Potential uses:

Organ transplants

- no rejection of transplant
- no pain or risk to 'donor'
- no waiting lists
- organs would be brand new
- lives saved

Cure for Parkinson's, Alzheimer's and thousands of other disorders
Treatment for diabetes, paralysis and countless other conditions

Concerns:

- Where can you get stem cells from?
 - Foreign DNA (greater chances of rejection and need for drugs)
 - embryos created in infertility treatment
 - eggs mixed with donated sperm
 - germ cells or organs of aborted foetuses
 - Perfect match
 - cell nuclear transplant
 - bone marrow – limited usefulness
 - 'mature adult tissue cells' – speculative
 - umbilical cord
- Cell nuclear transplant seems the best way forward, but...
- An embryo is a person, however created – this is murder
- Others say it's a pre-embryo and has a reduced status
- There are lots of technical problems that mean it doesn't work yet
- Harvesting eggs is painful, costly and unreliable
- Is it right to use non-human eggs?